Day : Wednesday

PALM INTRANET

Date: 8/3/2005
Time: 09:06:51

Inventor Information for 10/632101

Inventor Name	City	State/Country
CIUFOLINI, MARCO	LYON	FRANCE
WERMUTH, CAMILLE GEORGES	STRASBOURG	FRANCE
GIELTHEN, BRUNO	ILLKIRCH	FRANCE
MOUSSY, ALAIN	PARIS	FRANCE

Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data

Search Another: Application# [ ] Search **or Patent#** [ ] Search

PCT / [ ] / [ ] Search **or PG PUBS #** [ ] Search

Attorney Docket # [ ] Search

Bar Code # [ ] Search

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8/3/05

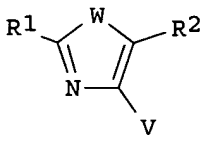
SRNT

L19 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:591161 CAPLUS
DOCUMENT NUMBER: 139:149626
TITLE: Preparation of 4-(hetero)aryl-substituted thia-, oxa-, and pyrazoles for inhibition of Tie-2
INVENTOR(S): Stieber, Frank; Hellmuth, Klaus; Waldmann, Herbert; Mazitschek, Ralph; Giannis, Athanassios
PATENT ASSIGNEE(S): Kylix Pharmaceuticals B.V., Neth.
SOURCE: PCT Int. Appl., 164 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062215	A1	20030731	WO 2003-EP810	20030127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003158199	A1	20030821	US 2002-57747	20020125
CA 2474322	AA	20030731	CA 2003-2474322	20030127
EP 1467981	A1	20041020	EP 2003-731722	20030127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

PRIORITY APPLN. INFO.:
EP 2002-75367 A 20020125
US 2002-57747 A 20020125
WO 2003-EP810 W 20030127

OTHER SOURCE(S): MARPAT 139:149626
GI



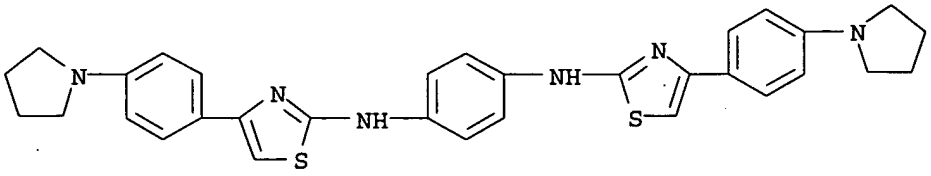
I

AB Azoles I [W = NH, O, S; V = H, (un)substituted 5-6-membered heterocycle; R1 = H, alkyl, alkenyl, cycloalkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, alkylaryl, (un)substituted NH2; R2 = H, alkyl, alkenyl, cycloalkyl, heteroalkyl, aryl, heteroaryl, arylalkyl, alkylaryl, carboxyl, Br, C1, F, CF3] were prepared for use as inhibitors of Tie-2 tyrosine kinase receptors. Thus, I [V = 2-Et2NC6H4, R1 = NHEt, R2 = H, W = S] was obtained by treating 4-Et2NC6H4COCH2Br with EtNHCONH2 and had IC50 for inhibition of Tie-2 receptors of 0.27 μM and for inhibition of KDR receptors of 1.10 μM.

IT **572886-91-0P 572888-85-8P 572888-86-9P**

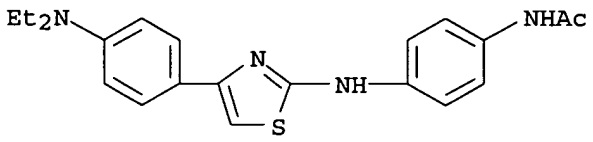
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-(hetero)aryl-substituted thia-, oxa-, and pyrazoles for inhibition of Tie-2)

RN 572886-91-0 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis[4-[4-(1-pyrrolidinyl)phenyl]-2-thiazolyl]-, dihydrobromide (9CI) (CA INDEX NAME)

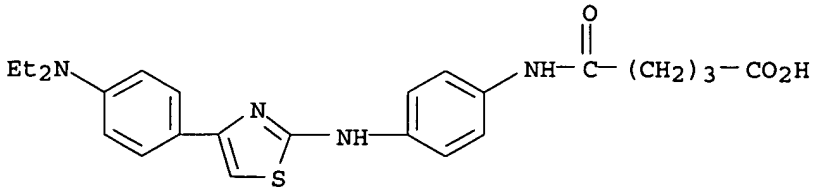


●2 HBr

RN 572888-85-8 CAPLUS
CN Acetamide, N-[4-[[4-[4-(diethylamino)phenyl]-2-thiazolyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 572888-86-9 CAPLUS
CN Pentanoic acid, 5-[[4-[[4-[4-(diethylamino)phenyl]-2-thiazolyl]amino]phenyl]amino]-5-oxo- (9CI) (CA INDEX NAME)

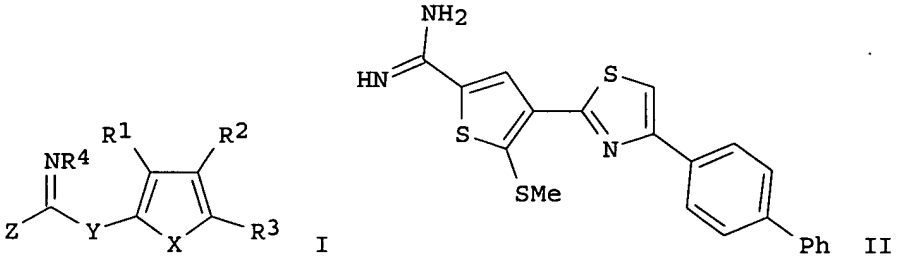


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:687446 CAPLUS
DOCUMENT NUMBER: 135:242131
TITLE: Preparation of thiophenecarboxamidines and analogs as protease inhibitors
INVENTOR(S): Illig, Carl R.; Subasinghe, Nalin L.; Hoffman, James B.; Wilson, Kenneth J.; Rudolph, M. Jonathan; Marugan, Juan Jose
PATENT ASSIGNEE(S): 3-Dimensional Pharmaceuticals, Inc., USA
SOURCE: U.S., 108 pp., Cont.-in-part of U. S. Ser. No. 247,062.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6291514	B1	20010918	US 1999-372748		19990811
US 2001031781	A1	20011018	US 2001-828783		20010410
US 6403633	B2	20020611			
US 6562840	B1	20030513	US 2002-82127		20020226
PRIORITY APPLN. INFO.:			US 1998-74110P	P	19980209
			US 1999-247062	A2	19990209
			US 1999-372748	A1	19990811
			US 2001-828783	A1	20010410

OTHER SOURCE(S): MARPAT 135:242131
GI



I II

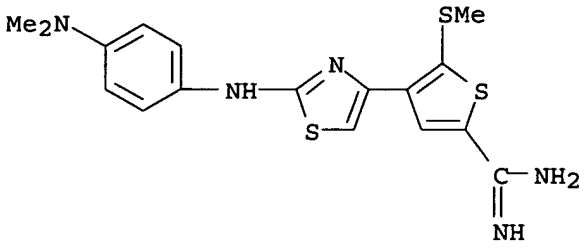
AB The title compds. [I; X = S; Y = a covalent bond, NH; Z = NR5R6; R1 = H, NH2, OH, halo; R2 = alkylsulfonylamino, aralkylsulfonylamino, arylsulfonylamino, etc.; R3 = H, alkylthio, alkyl, etc.; R4-R6 = H, alkyl, aryl, etc.] which are potent inhibitors of proteases, especially trypsin-like serine proteases, such as chymotrypsin, trypsin, plasmin and urokinase, were prepared and formulated. Thus, cyclocondensation of Me 4-(aminothioxomethyl)-5-methylthiothiophene-2-carboxylate with 4'-phenyl-2-bromoacetophenone followed by treatment of the resulting intermediate with with NH4Cl/Me3Al afforded the title compound II.HCl. Data for biol. activity of I were given.

IT **237383-08-3P 237383-28-7P 237383-48-1P**
237383-66-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiophenecarboxamidines and analogs as protease inhibitors)

RN 237383-08-3 CAPLUS

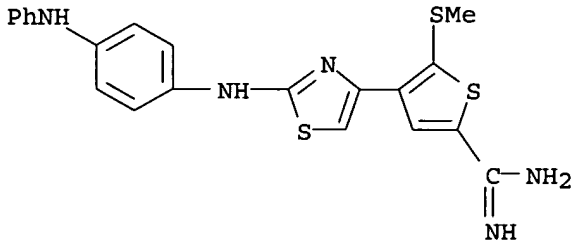
CN 2-Thiophenecarboximidamide, 4-[2-[[4-(dimethylamino)phenyl]amino]-4-thiazolyl]-5-(methylthio)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 237383-28-7 CAPLUS

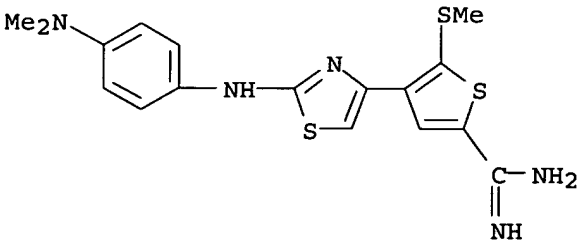
CN 2-Thiophenecarboximidamide, 5-(methylthio)-4-[2-[[4-(phenylamino)phenyl]amino]-4-thiazolyl]-, monohydrochloride (9CI) (CA INDEX NAME)



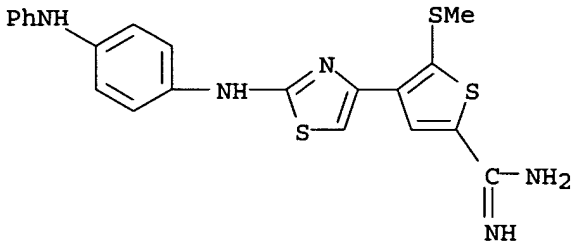
● HCl

RN 237383-48-1 CAPLUS

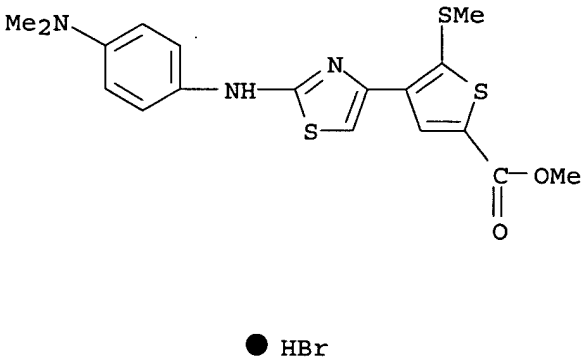
CN 2-Thiophenecarboximidamide, 4-[2-[[4-(dimethylamino)phenyl]amino]-4-thiazolyl]-5-(methylthio)- (9CI) (CA INDEX NAME)



RN 237383-66-3 CAPLUS
CN 2-Thiophenecarboximidamide, 5-(methylthio)-4-[2-[[4-(phenylamino)phenyl]amino]-4-thiazolyl]- (9CI) (CA INDEX NAME)

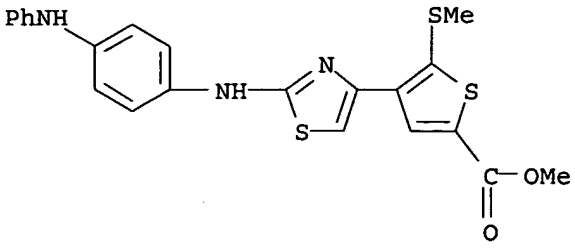


IT **237385-44-3P 237385-68-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiophenecarboxamidines and analogs as protease inhibitors)
RN 237385-44-3 CAPLUS
CN 2-Thiophenecarboxylic acid, 4-[2-[[4-(dimethylamino)phenyl]amino]-4-thiazolyl]-5-(methylthio)-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 237385-68-1 CAPLUS
CN 2-Thiophenecarboxylic acid, 5-(methylthio)-4-[2-[[4-(phenylamino)phenyl]amino]-4-thiazolyl]-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:401652 CAPLUS
DOCUMENT NUMBER: 133:43516
TITLE: Preparation of bisthiazolyl compounds as MYT1 kinase inhibitors
INVENTOR(S): Lago, Maria A.
PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

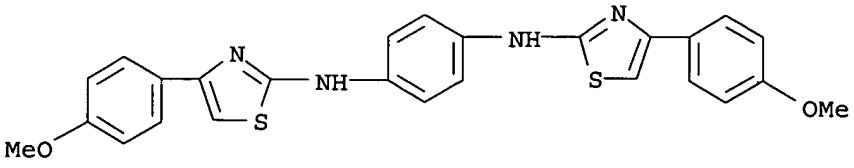
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033842	A1	20000615	WO 1999-US28989	19991207
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1137415	A1	20011004	EP 1999-967226	19991207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531504	T2	20020924	JP 2000-586334	19991207
ZA 2000001963	A	20001018	ZA 2000-1963	20000418
US 6391894	B1	20020521	US 2001-857520	20010719
PRIORITY APPLN. INFO.:			US 1998-111329P P	19981207
			WO 1999-US28989 W	19991207

OTHER SOURCE(S): MARPAT 133:43516

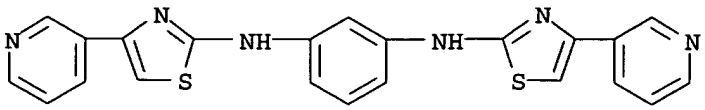
AB Novel myt1 kinase receptor antagonists are provided. General methods of synthesis are given. E.g., bis[4-(2-pyridyl)thiazol-2-yl]amine was provided.

IT **36247-15-1P 274675-34-2P 274675-39-7P**
274675-40-0P 274675-41-1P 274675-42-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of bisthiazolyl compds. as myt1 kinase inhibitors)

RN 36247-15-1 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis[4-(4-methoxyphenyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)

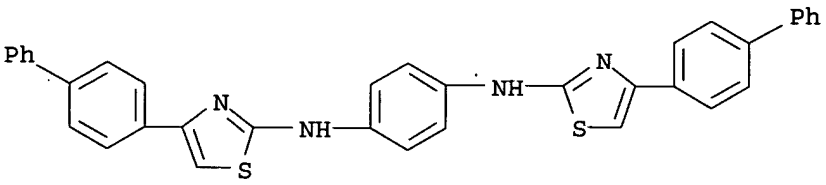


RN 274675-34-2 CAPLUS
CN 1,3-Benzenediamine, N,N'-bis[4-(3-pyridinyl)-2-thiazolyl]-, dihydrobromide (9CI) (CA INDEX NAME)

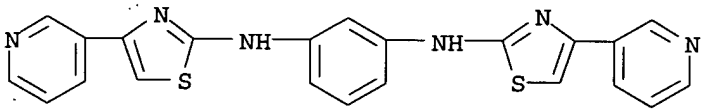


● 2 HBr

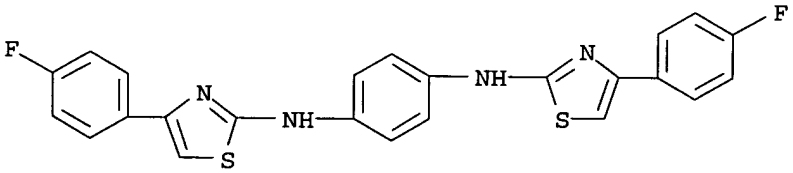
RN 274675-39-7 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-[1,1'-biphenyl]-4-yl-2-thiazolyl)- (9CI) (CA INDEX NAME)



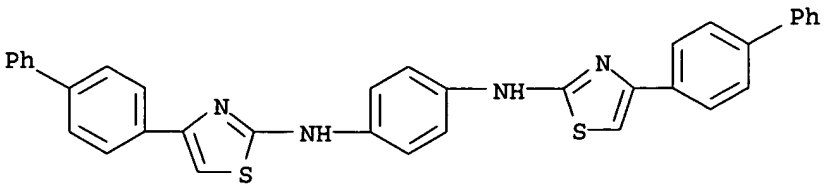
RN 274675-40-0 CAPLUS
CN 1,3-Benzenediamine, N,N'-bis[4-(3-pyridinyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



RN 274675-41-1 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis[4-(4-fluorophenyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



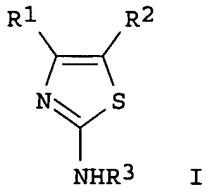
RN 274675-42-2 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-[1,1'-biphenyl]-4-yl-2-thiazolyl)-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:271950 CAPLUS
DOCUMENT NUMBER: 129:41096
TITLE: Expedient synthesis of N-substituted 2-aminothiazoles
AUTHOR(S): Schantl, Joachim G.; Lagoja, Irene M.
CORPORATE SOURCE: Institut fur Organische Chemie, Universitat Innsbruck, Innsbruck, A-6020, Austria
SOURCE: Synthetic Communications (1998), 28(8), 1451-1462
CODEN: SYNCAV; ISSN: 0039-7911
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:41096
GI

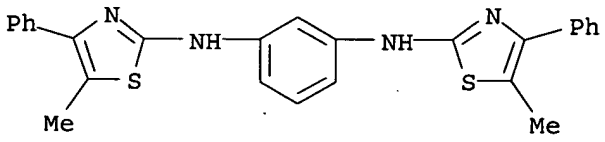


I

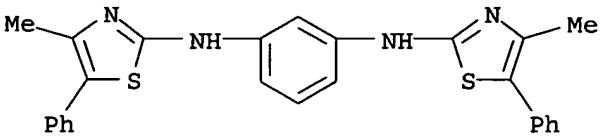
AB The reaction of α-halo ketones R1COCHXR2 (R1 = Ph, Me, R2 = Me, Ph, H, X = Cl, Br) with potassium thiocyanate and amines R3NH2 (R3 = Ph, PhCH2, 3-, 4-H2NC6H4) offers the advantage of an efficient one-pot synthesis of the title compds. I from readily available starting materials.

IT **208396-19-4P 208396-20-7P 208396-22-9P**
208396-23-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of aminothiazoles)

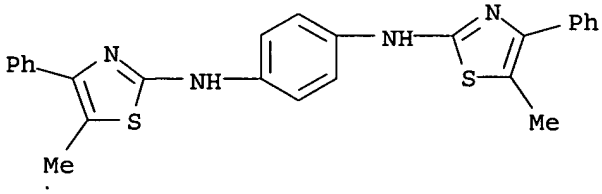
RN 208396-19-4 CAPLUS
CN 1,3-Benzenediamine, N,N'-bis(5-methyl-4-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



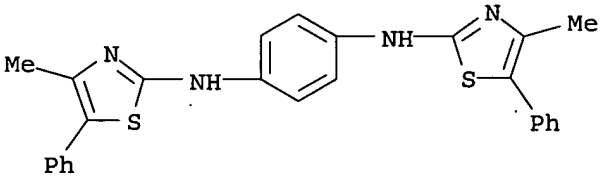
RN 208396-20-7 CAPLUS
CN 1,3-Benzenediamine, N,N'-bis(4-methyl-5-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 208396-22-9 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(5-methyl-4-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 208396-23-0 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-methyl-5-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

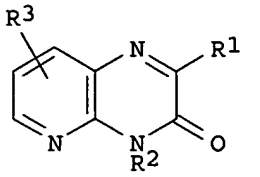
L19 ANSWER 29 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:264958 CAPLUS
DOCUMENT NUMBER: 124:317209
TITLE: Preparation of heterobicyclic derivatives as phosphodiesterase IV inhibitors and tumor necrosis factors
INVENTOR(S): Hemmi, Keiji Di; Shimazaki, Norihiko; Watanabe, Shinya; Sawada, Akihiko
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9601825	A1	19960125	WO 1995-JP1366	19950710
W: AU, BR, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2194872	AA	19960125	CA 1995-2194872	19950710
AU 9528992	A1	19960209	AU 1995-28992	19950710
AU 698133	B2	19981022		
EP 770079	A1	19970502	EP 1995-924526	19950710
EP 770079	B1	20030212		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1157617	A	19970820	CN 1995-194959	19950710
CN 1051548	B	20000419		
JP 10502630	T2	19980310	JP 1995-504226	19950710
HU 77353	A2	19980330	HU 1997-68	19950710
EP 920867	A1	19990609	EP 1998-120297	19950710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
RU 2170737	C2	20010720	RU 1997-101882	19950710
JP 3206003	B2	20010904	JP 1996-504226	19950710
AT 232531	E	20030215	AT 1995-924526	19950710
ES 2187561	T3	20030616	ES 1995-924526	19950710
PT 770079	T	20030630	PT 1995-924526	19950710
TW 383307	B	20000301	TW 1995-84107168	19950711
US 6426345	B1	20020730	US 1998-793451	19980130
HK 1004483	A1	20031024	HK 1998-103728	19980501
CN 1250776	A	20000419	CN 1999-111945	19990729
US 2002107251	A1	20020808	US 2002-50855	20020118
US 6727245	B2	20040427		

PRIORITY APPLN. INFO.:

GB 1994-13975	A	19940711
EP 1995-924526	A3	19950710
WO 1995-JP1366	W	19950710
US 1998-793451	A1	19980130

OTHER SOURCE(S): MARPAT 124:317209
GI



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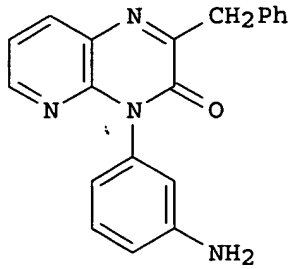

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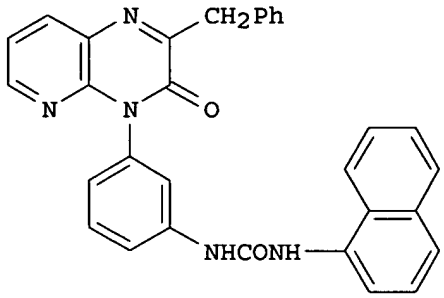
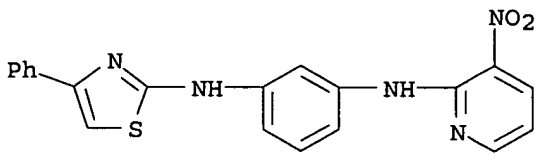


III

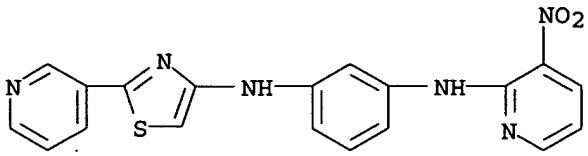
AB Heterobicyclic derivs. [I; R1 = (un)substituted aryl, aralkyl, haloalkyl, protected carboxyalkyl, acylalkyl, heterocyclyl, etc.; R2 = (un)substituted aryl, heterocyclyl; R3 = H, alkoxy, alkylthio] and their salts are prepared A mixture of amino compound II and 1-naphthyl isocyanate in dry dioxane was stirred at room temperature to give the ureido compound III, which showed IC50 of 3.1 x 10-8 M against phosphodiesterase IV and IC50 of 5.6 x 10-8 M against human mononuclear cells.

IT **176032-42-1P 176033-76-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of heterobicyclic derivs. as phosphodiesterase IV inhibitors and tumor necrosis factors.)

RN 176032-42-1 CAPLUS
CN 1,3-Benzenediamine, N-(3-nitro-2-pyridinyl)-N'-(4-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



RN 176033-76-4 CAPLUS
CN 1,3-Benzenediamine, N-(3-nitro-2-pyridinyl)-N'-[2-(3-pyridinyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)


NO2
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NH
NH
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L19 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:3480 CAPLUS
DOCUMENT NUMBER: 72:3480
TITLE: 2-Substituted aminothiazoles
INVENTOR(S): Dexter, Martin; Spivack, John D.
PATENT ASSIGNEE(S): Geigy Chemical Corp.
SOURCE: U.S., 15 pp. Continuation-in-part of U. S. 3299087
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3467666	A	19690916	US 1966-592278	19661107
PRIORITY APPLN. INFO.:			US 1966-592278 A	19661107

GI For diagram(s), see printed CA Issue.

AB Continuation-in-part of U.S. 3,299,087 (CA 66:85783t). The title compds. such as 2-(arylamino)-4-arylthiazoles, 2-(acenaphthylamino)-substituted thiazoles, 2,2'-iminobis (4-substituted thiazoles), 2-(arylamino)-4-alkylthiazoles, 2-(arylamino)-5-alkylthiazoles, 2-(arylamino)tetrahydrobenzothiazoles, and biphenylylenebis(2-amino-4-substituted thiazoles) were prepared and used as heat and light stabilizers for polyolefins, animal and vegetable fats and oils, gasolines, jet fuel, and waxes. Thus, 15.4 parts phenacyl chloride in 50 parts C6H6 was added to 18.2 parts o-methoxyphenylthiourea in 150 parts EtOH to give I (X = o-MeOC6H4, R = H, R1 = Ph), m. 85-6° (iso-PrOH). Similarly prepared were the following I (X, R, R1, and m.p. given): o-hydroxyphenyl, H, Ph, 179-80° (C6H6); o-aminophenyl, H, Ph, 163-5° (iso-PrOH); p-aminophenyl, H, Ph, 133-5° (C6H6); m-hydroxyphenyl, H, Ph, 123-5° (ClCH2CH2Cl); m-aminophenyl, H, Ph, 160-2° (iso-PrOH); p-hydroxyphenyl, Ph, Ph, 152-3° (C6H6); 3,5-di-tert-butyl-4-hydroxyphenyl, H, Ph, 192-4° (petroleum ether); 5-(1,1,3,3-tetramethylbutyl)-2-hydroxyphenyl, H, Ph, 159-60° (C6H6-hexane); p-(diethylamino)-phenyl, H, Ph, 149-50° (C6H6); p-acetamidophenyl, H, Ph, 179-80° (iso-PrOH); m-acetamidophenyl, H, Ph, 145-6° (Cl-CH2CH2Cl-C6H6); p-lauramidophenyl, H, Ph, 150-1° (C6H6); p-lauramidophenyl, H, p-tert-butylphenyl, 163.5-4.5° (C6H6); p-stearamidophenyl, H, Ph, 146-7.5° (CHCl3); 2-hydroxy-5-tert-octylphenyl, lauroyl, Ph, 106.5-8°; p-acetamidophenyl, H, p-tert-butylphenyl, 198-200° (aqueous EtOH); m-acetamidophenyl, H, p-tert-butylphenyl, 139-40° (ClCH2CH2Cl-C6H6); α-naphthyl, H, p-tert-butylphenyl, 214-15° (C6H6); p-diethylaminophenyl, H, p-tert-butylphenyl, 231-3° (C6H6); p-anilinophenyl, H, p-tert-butylphenyl, 162-3° (iso-PrOH); p-aminophenyl, Me, p-tert-butylphenyl, 161-2° (C6H6-hexane and EtOH); p-aminobiphenylyl, H, p-tert-butylphenyl, 187-8° (C6H6 and iso-PrOH-C6H6); p-aminophenyl, H, p-n-dodecylphenyl, 121° (iso-PrOH); m-hydroxyphenyl, H, p-n-dodecylphenyl, 140° (iso-PrOH); p-hydroxyphenyl, H, p-n-dodecylphenyl, 136-7° (C6H6); p-methoxyphenyl, H, p-n-dodecylphenyl, 106° (C6H6-hexane); o-aminophenyl, H, p-n-dodecylphenyl, 122-4° (iso-PrOH); p-aminobiphenyl, H, p-n-dodecylphenyl, 170-5° (iso-PrOH-CHCl3). I (X = p-HOC6H4, R = H, R1 = Ph), m. 203° (iso-PrOH), was prepared by treating p-aminophenol with 2-amino-4-phenylthiazole hydroiodide in ethylene glycol at 185° under N. A mixture of 10.5 parts p-tert-butylphenacyl chloride in 25 parts C6H6 was added in 10 min to a

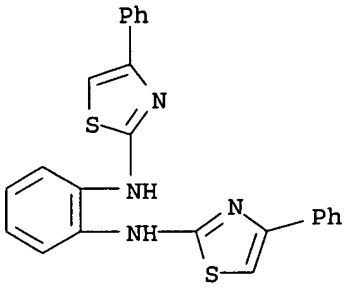
dispersion of 11.4 parts 1-(5-acenaphthyl)thiourea in 75 parts EtOH, and heated for 3 hr at 75° to give I (X = 5-acenaphthyl, R = H, R1 = p-tert-BuC6H4), m. 198-200° (C6H6-hexane). A mixture of 21 parts p-tert-butylphenacyl chloride in 35 parts C6H6 was added dropwise at 55° to a dispersion of 6.7 parts 2,4-dithiobiuret in 100 parts EtOH and refluxed 3 hr at 75° under N to give 26 parts II (R2 = p-tert-BuC6H4) (IIa), m. 256-7° (C6H6-iso-PrOH). Similarly prepared were the following II (R2 and m.p. given): hendecyl, 80-1° (hexane); tert-Bu, 114-15° (aqueous EtOH); p-n-dodecylphenyl, 104-5 ° (iso-PrOH). A solution of 7 parts chloropropanone in 25 parts C6H6 was added to a dispersion of 12 parts p-aminophenylthiourea in 150 parts EtOH to give 7 parts I (X = p-H2NC6H4, R = H, R1 = Me), m. 140-1° (C6H6). Similarly were prepared the following I (X, R, R1, and m.p. given): o-aminophenyl, H, Me, 147-8° (iso-PrOH); m-aminophenyl, H, Me, -; 5-(1,1,3,3-tetramethylbutyl)-2-hydroxyphenyl, H, Me, 158-60° (cyclohexane); 3,5-tert-butyl-4-hydroxyphenyl, H, Me, 174-5° (C6H6-hexane); p-aminophenyl, H, tert-butyl, 145-6° (C6H6); o-hydroxyphenyl, H, tert-Bu, 145-5.5° (C6H6); p-hydroxyphenyl, H, tert-Bu, 178-9° (C6H6); o-methoxyphenyl, H, tert-Bu, -; p-methoxyphenyl, H, tert-Bu, 117-19° (C6H6-hexane); m-hydroxyphenyl, H, tert-Bu, 149-51° (C6H6); α-naphthyl, H, tert-Bu, 89-90° (petroleum ether-hexane); 5-(1,1,3,3-tetramethylbutyl)-2-hydroxyphenyl, H, tert-Bu, 128-9° (C6H6-hexane); 3,5-di-tert-butyl-4-hydroxyphenyl, H, tert-Bu, 113-14° (petroleum ether); p-hydroxyphenyl, Ph, tert-Bu, 161-2.5° (water-iso-PrOH); o-aminophenyl, H, tert-Bu, 134-5° (C6H6); m-aminophenyl, H, tert-Bu, 101-2° (CCl4); o-hydroxyphenyl, H, n-hendecyl, 122-3° (iso-PrOH); o-aminophenyl, H, n-hendecyl, 93-4° (hexane); p-aminophenyl, H, n-hendecyl, 70-1° (CCl4); p-hydroxyphenyl, H, n-hendecyl, 85-6° (hexane); o-methoxyphenyl, H, n-hendecyl, 47-8.5° (hexane); p-methoxyphenyl, H, n-hendecyl, 58-60° (petroleum ether); α-naphthyl, H, n-hendecyl, 58-60° (iso-PrOH). A solution of 9.65 parts α-bromoheptaldehyde in 25 parts C6H6 was added dropwise at 25-30° in 10 min to a dispersion of 8.4 parts p-hydroxyphenylthiourea in 75 parts EtOH, and refluxed 2 hr under N to give 7.5 parts 2-p-hydroxyanilino-5-n-pentylthiazole hydrochloride, m. 152-4°, which was dissolved in H2O-EtOH and treated with NaHCO3 to give 2-(o-hydroxyanilino)-5-n-pentylthiazole, m. 90-2°. 2-(o-Hydroxyanilino)-4-methyl-5-tert-butylthiazole, m. 133-5°, was similarly prepared A solution of 15.0 parts 1-bromo-3,3-dimethyl-2-butanone in 25 parts C6H6 was added dropwise at 35° to a dispersion of 9.0 parts p-phenylenedithiourea in 100 parts Me Cellosolve in 20 min and refluxed 4.5 hr under N to give 14 parts III (R3 = tert-Bu, R4 = H, Y = p-phenylene) m. 199-202° (ClCH2CH2Cl-C6H6). Similarly prepared were the following III (R3, R4, Y, and m.p. given): Me, H, p-phenylene, 227-9° (MeOH-iso-PrOH); Me, H, o-phenylene, 167-8° (iso-PrOH); Ph, H, o-phenylene, 135-6° (CCl4); Ph, H, o-phenylene, 228-9° (iso-PrOH); tert-butylphenyl, H, p-phenylene, 253-5° (ClCH2CH2Cl); p-tert-butylphenyl, Ph, p-phenylene, 219-20° (iso-PrOH-C6H6). A dispersion of 13 parts 2-chlorocyclohexanone and 16.8 parts o-hydroxyphenylthiourea in 150 parts EtOH was refluxed 3 hr to give IV (X = o-HOC6H4), m. 191-2° (iso-PrOH). Similarly prepared were the following IV (X and m.p. given): α-naphthyl, 188-9° (EtOH); o-aminophenyl, 184° (iso-PrOH); p-hydroxyphenyl, 164-5° (C6H6). A solution of 14.3 parts 1-bromo-3,3-dimethyl-2-butanone in 26 parts C6H6 was added dropwise in 10 min at 27° to a dispersion of 12.8 parts p-biphenylenebis(2-thiourea) in 127 parts Me Cellosolve and heated 4 hr at 80° to give 16 parts III (R3 = tert-Bu, R4 = H, Y =

p-biphenylylene), m. 243-4° (C6H6-CHCl3). Similarly prepared were the following III (R3 = H, Y = biphenylylene) (R4 and m.p. given): Ph, 276-8° (pyridine-C6H6); p-n-dodecylphenyl, 2 58-63° (tetrahydrofuran-C6H6); n-undecyl, 149-51° (CHCl3). Un-stabilized polypropylene was blended with 0.5% IIa and the blended material was milled on a 2-roll mill at 182° for 10 min. The blend was sheeted from the mill and the sheet was cut into small pieces which were pressed 7 min at 218° and 2000 psi. The resultant 25-mil thick sheet was tested for resistance to accelerated aging in a forced draft oven at 149°. The sample crazed after 500 hr exposure, while polypropylene alone crazed after 3 hr. The compds. were also used to prepare stabilized mineral oil, gasoline, lard , high temperature lubricants, heptaldehyde, cyclohexene, paraffin wax, natural rubber, polyisoprene rubber, and styrene-butadiene rubber.

IT **1614-24-0P 1619-42-7P 1619-43-8P 1619-44-9P 1619-45-0P 1619-46-1P 1619-48-3P 1619-49-4P 1626-62-6P 1745-28-4P**, Thiazole, 2,2'-(p-phenylenediimino)bis[4-(p-tert-butylphenyl)- **1750-98-7P 2027-72-7P 2138-96-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

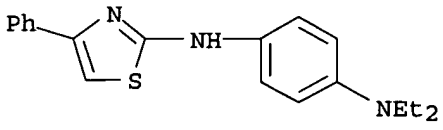
RN 1614-24-0 CAPLUS

CN Thiazole, 2,2'-(o-phenylenediimino)bis[4-phenyl- (7CI, 8CI) (CA INDEX NAME)



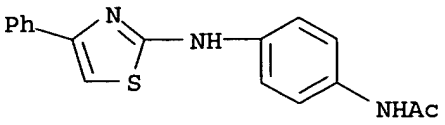
RN 1619-42-7 CAPLUS

CN Thiazole, 2-[p-(diethylamino)anilino]-4-phenyl- (7CI, 8CI) (CA INDEX NAME)

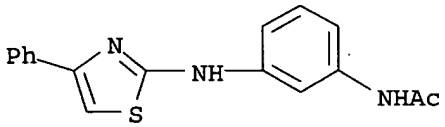


RN 1619-43-8 CAPLUS

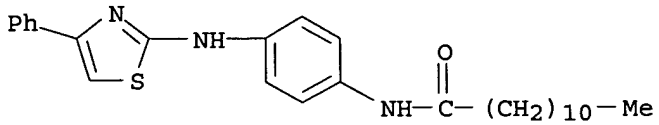
CN Acetanilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



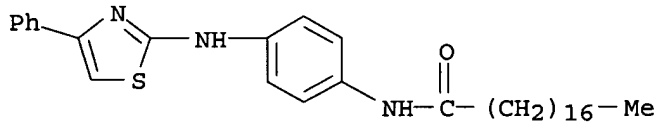
RN 1619-44-9 CAPLUS
CN Acetanilide, 3'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



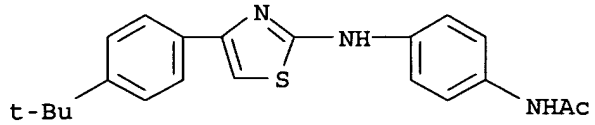
RN 1619-45-0 CAPLUS
CN Dodecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



RN 1619-46-1 CAPLUS
CN Octadecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)

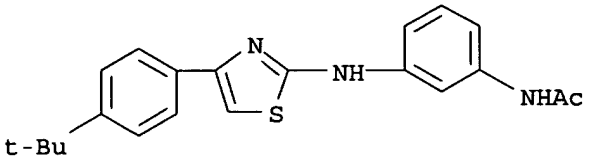


RN 1619-48-3 CAPLUS
CN Acetanilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)

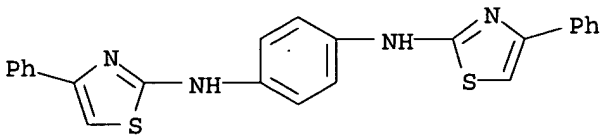


RN 1619-49-4 CAPLUS

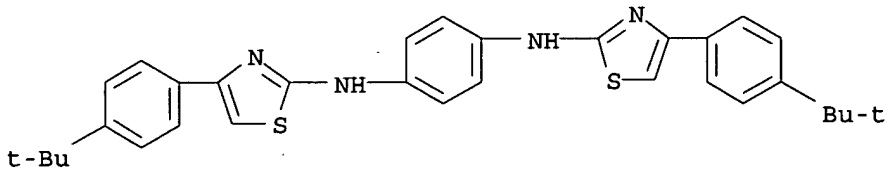
CN Acetanilide, 3'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)



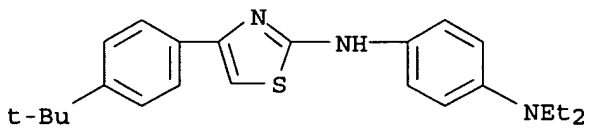
RN 1626-62-6 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



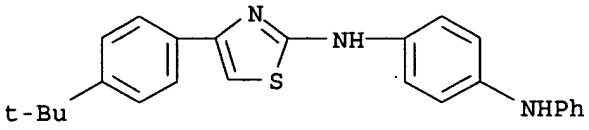
RN 1745-28-4 CAPLUS
CN Thiazole, 2,2'-(p-phenylenediimino)bis[4-(p-tert-butylphenyl)- (7CI, 8CI) (CA INDEX NAME)



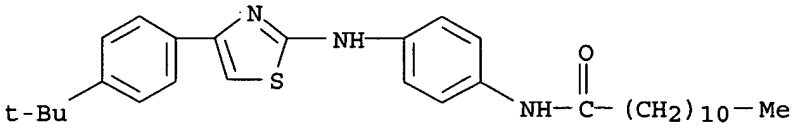
RN 1750-98-7 CAPLUS
CN Thiazole, 4-(p-tert-butylphenyl)-2-[p-(diethylamino)anilino]- (7CI, 8CI) (CA INDEX NAME)



RN 2027-72-7 CAPLUS
CN Thiazole, 2-(p-anilinoanilino)-4-(p-tert-butylphenyl)- (7CI, 8CI) (CA INDEX NAME)



RN 2138-96-7 CAPLUS
CN Dodecananilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)



L19 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1965:498377 CAPLUS
DOCUMENT NUMBER: 63:98377
ORIGINAL REFERENCE NO.: 63:18098h,18099a-h,18100a-h,18101a-b
TITLE: 2-Substituted aminothiazoles
INVENTOR(S): Spivack, John D.; Dexter, Martin
SOURCE: 14 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3201409		19650817	US	19610424

GI For diagram(s), see printed CA Issue.

AB The title compds. (I-IV) are antioxidants and stabilizers for lubricating oils, hydrocarbons, polyolefins, elastomers, animal and vegetable fats, and aldehydes when incorporated at a level of 0.01-1%; an example for each is given. The thiazoles are prepared by condensation of an arylthiourea with an α-halocarbonyl compound Prepns. of the new thioureas (VII) tabulated are not given. A mixture of BzCH2Cl 15.4 in C6H6 50 and 2-MeOC6H4NHCSNH2 18.2 in EtOH 150 parts was refluxed several hrs., diluted with 300 parts H2O, neutralized with saturated NaHCO3, and extracted with Et2O to give 22 parts 2-o-methoxyanilino-4-phenylthiazole, m. 85-6° (iso-PrOH). Compds. similarly prepared are tabulated. Reacting 4-HOC6H4NH2 22 with 2-amino-4-phenylthiazole-HI 15 in ethylene glycol 250 parts at 185° under N2 gave 5 parts 2-p-hydroxyanilino-4-phenylthiazole (VIII). Salts isolated were IX.HCl, m. 255-7°, and X.HCl, m. 152-4°. Formula, R, R1, R2, R3, R4, R5, R6, Parts thiourea compound, Parts carbonyl compound, Parts product, M.p., Solvent; I, H, H, -, OH, H, H, H, 16.8, 15.4, 19, 179-80, a; I, H, H, -, NH2, H, H, H, 16.7 15.4, 12, 163-5, a; I, H, H, -, H, H, NH2, H, 16.7, 15.4, 15, 133-5, a; I, H, H, -, H, OH, H, H, 16.8, 15.4, 14, 123-5, C2H4Cl2; I, H, H, -, H, NH2, H, H, 16.7, 15.4, 15, 160-2, b; I, Ph, H, -, H, H, OH, H, 11, 6.2, 14.9, 152-3, a; I, H, H, -, H, tert-Bu, OH, tert-Bu, 5, 2.74, 4, 192-4, c; I, H, H, -, OH, H, H, tert-octyl, 14, 7.7, 21, 159-60, a-d; I, H, H, -, H, H, NEt2, H, 11.5, 7.7, 7.5, 149-50, a; I, H, H, -, H, H, OH, H, -, -, -, 203, b; I (IX), H, H, -, H, H, NHAc, H, 10.5, 7.7, 15.3, 179-80, b; I, H, H, -, H, NHAc, H, H, 10.5, 7.7, 18.5, 145-6, C2H4Cl2-a; I, H, H, -, H, H, NHCOC11H23, H, 17.5, 7.7, -, 150-1, a; I, H, tert-Bu, -, H, H, NHCOC11H23, H, 17.5, 10.5, 17.3, 163.5-4.5, a; I, H, H, -, H, H, NHCOC17H35, H, 15, 5.3, 12.6, 146-7.5, CHCl3; I, COC11H23, H, -, OH, H, H, tert-octyl, 5.5, 3.1, -, 106.5-8, d; I, Ac, H, -, OH, H, H, tert-octyl, 5.5, 1.09, -, -, -; I, COC17H35, H, -, OH, H, H, tert-octyl, 5.5, 4.23, -, -, -; I, H, tert-Bu, -, H, H, NHAc, H, -, -, 16.5, 198-200, aqueous EtOH; I, H, tert-Bu, -, H, NHAc, H, H, -, -, -, 139-40, C2H4Cl2-a; I, H, tert-Bu, -, (R3R4 : benzo), H, H, 10, 11, 10, 214-15, a; I, H, tert-Bu, -, H, H, NEt2, H, 13, 13, 18, 231-3, a; I, H, tert-Bu, -, H, H, NHPh, H, -, 10.5, 19, 162-3, b; I, Me, tert-Bu, -, H, H, NH2, H, 7.83, 9.1, 15.9, 161-2, EtOH; I, C6H13, tert-Bu, -, H, H, NH2, H, 15.1, 9.1, -, -, -; I, H, tert-Bu, -, H, H, 4-C6H4NH2, H, 6, 4.2, 7, 187-8, a; I, H, C12H25, -, H, H, NH2, H, 4.2, 8.1, 10, 121, b; I, H, C12H25, -, H, tert-Bu, OH, H, 5.3, -, -, -, -; I, H, C12H25, -, H, C12H25, OH, H, 8.4, -, -, -, -; I, H, C12H25, -, H, C13H37, OH, H, -, -, -, -, -; I, H, C18H37, -, H, H, NH2, H, -, 10.2, -, -, -; I, H, C12H25, -, OH, H, H, H, 5, 8.1, 9, 140, b; I, H, C12H25, -, H, H, OH, H, 4.2, 8.1, 10, 136-7, a; I, H, C12H25, -, H, H,

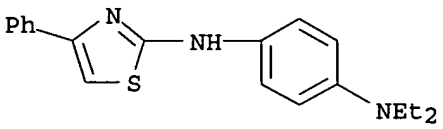
OMe, H, 4.5, 8.1, 11.5, 106, a-d; I, H, C12H25, -, NH2, H, H, H, 5, 8.1, 3, 122-4, b; I, H, C12H25, -, H, H, 4-C6H4NH2, H, 7.29, 9.6, 2.9, 170-5, b-CHCl3; I, H, tert-Bu, -, (R3R4R5 : 5-acenaphthyl), -, 11.4, 10.5, 14, 198-200, a-d; II, H, Me, H, H, H, NH2, H, 12, 7, 7, 140-1, a; II, H, C6H13, H, H, H, NH, H, 12, 6.5, -, -, -; II, H, Me, H, NH2, H, H, H, 18, 10, 4, 147-8, b; II, H, Me, H, H, NH2, H, H, 16.7, 9.2, -, liquid, -; II, H, Me, H, OH, H, H, tert-octyl, 11, 3.6, 11, 158-60, cyclohexane; II, H, Me, H, H, tert-Bu, OH, tert-Bu, 5, 1.7, 4, 174-5, a-d; II, H, tert-Bu, H, H, H, NH2, H, 9, 9, 16.9, 145-6, a; II, H, C8H17, H, H, H, NH2, H, 9, 9.5, -, -, -; II, H, tert-Bu, H, OH, H, NH2, C12H25, 18.3, 9, -, -, -; II, H, tert-Bu, H, OH, H, H, C18H22, 21, 9, -, -, -; II, H, C18H37, H, H, H, H, H, 9, 16.5, -, -, -; II, H, C12H25, H, H, H, NH2, H, 9, 12.3, -, -, -; II, H, tert-Bu, H, OH, H, H, H, 9, 9, 12.4, 145-5.5, a; II, H, tert-Bu, H, H, H, OH, H, 9, 9, 14.5, 178-9, a; II, H, tert-Bu, H, OMe, H, H, H, 9.2, 9, 11.5, liquid, -; II, H, tert-Bu, H, H, H, OMe, H, 9, 9, 11, 117-19, a-d; II, H, tert-Bu, H, H, OH, H, H, 16.8, 17.9, 17.5, 149-51, a; II, H, tert-Bu, H, (R3R4 : benzo), H, H, 10, 8.9, 13, 89-90, c-d; II, H, tert-Bu, H, OH, H, H, tert-octyl, 14, 8.9, 18.5, 128-9, a-d; II, H, tert-Bu, H, H, tert-Bu, OH, tert-Bu, 5, 3.2, 5, 113-14, c; II, Ph, tert-Bu, H, H, H, OH, H, 12.2, 8.9, 16, 161-2.5, aqueous b; II, H, tert-Bu, H, NH2, H, H, H, 9, 9, 11.8, 134-5, a; II, H, tert-Bu, H, H, NH3, H, H, 16.7, 17.9, 15, 101-2, CCl4; II, H, C11H23, H, OH, H, H, H, 4.5, 6.9, 10.5, 122-3, b; II, H, C11H23, H, NH2, H, H, H, 4.5, 6.9, 7.5, 93-4, d; II, H, C11H23, H, H, H, NH2, H, 4.5, 6.9, 5.2, 70-1, CCl4; II, H, C11H23, H, H, H, OH, H, 4.5, 6.9, 8, 85-6, d; II, H, C11H23, H, OMe, H, H, H, 4.5, 6.9, 9, 47-8.5, d; II, H, C11H23, H, H, H, OMe, H, 4.5, 6.9, 9, 58-60, c; II, H, C11H23, H, (R3R4 : benzo), H, H, 2.9, 4, 5.4, 58-60, b; II (X), H, H, C6H11, H, H, OH, H, 8.4, 9.65, 7.5, 105-6, a-d; (HCl); II, H, H, C5H11, OH, H, H, H, 8.4, 9.65, 13.7, 90-2, a-d; II, H, H, Me, OH, H, H, H, 8.4, 4.6, -, -, -; II, H, H, C12H25, OH, H, H, H, 8.4, 12.3, -, -, -; II, H, H, C18H37, OH, H, H, H, 8.4, 16.5, -, -, -; II, H, Me, tert-Bu, OH, H, H, H, 5.6, 5, 3, 133-5, d; II, H, C6H13, tert-Bu, OH, H, H, H, 5.6, 7.4, -, -, -; II, H, C12H25, tert-Bu, OH, H, H, H, 5.6, 11.2, -, -, -; II, H, C18H37, tert-Bu, OH, H, H, H, 5.6, 12.8, -, -, -; II, H, [R1R2 : (CH2)4], OH, H, H, H, 16.8, 13, -, 191-2, b; II, H, [R1R2 : (CH2)4], (R3R4 : benzo), H, H, 20.2, 13, 10, 188-9, EtOH; II, H, [R1R2 : (CH2)4], NH, H, H, H, 16.7, 13, 6, 184, b; II, H, [R1R2 : (CH2)4], H, H, OH, H, 16.8, 13.2, 8, 164-5, a; III, - 4-tert-BuC6H4, -, -, -, -, -, 6.7, 21, 26, 256-7, a-b; III, -, 4-C18H37C6H4, -, -, -, -, -, 40.6, -, -, -; III, -, C11H23, -, -, -, -, -, 2.7, 11.1, 10, 80-1, b; III, -, tert-Bu, -, -, -, -, -, 6.7, 17.9, 13, 114-15, aqueous EtOH; III, -, 4-C12H25C6H4, -, -, -, -, -, 3.5, 16.2, 11.5, 104-5, b; IV, H, Me, -, -, -, -, -, 5.5, 5, 1.4, 167-8, b; IV, H, Ph, -, -, -, -, -, 11.3, 15.4, 15, 135-6, CCl4; V, H, tert-Bu, -, -, -, -, -, 9, 15, 14, 199-202, C2H4Cl2; V, H, C12H25, -, -, -, -, -, 9, 19.7, -, -, -; V, H, C18H37, -, -, -, -, -, 9, 26.4, -, -, -; V, H, Me, -, -, -, -, -, 11.3, 9.2, 5, 227-9, MeOH-b; V, H, Ph, -, -, -, -, -, 24, 31, 228-9, b; V, H, 4-tert-BuC6H4, -, -, -, -, -, 11.5, 21, -, 253-5, C2H4Cl2, V, Ph, 4-tert-BuC6H4, -, -, -, -, -, 13.6, 19, 19, 219-20, b-a; VI, -, tert-Bu, -, -, -, -, -, 12.8, 14.3, 16, 243-4, a-CHCl3, VI, -, Ph, -, -, -, -, -, 12.8, 12.3, 15, 276-8, C6H6N-a; VI, -, 4-C12H25C6H4, -, -, -, -, -, 6.5, 12.9, 15, 258-63, tetrahydrofuran-a; VI, -, C11H23, -, -, -, -, -, 6.5, 11.1, 12, 149-51, CHCl3; VII, H, -, -, OH, H, H, tert-octyl, -, -, -, 160-1, -; VII, H, -, -, H, H, 4-H2NC6H4, H, -, -, -, 270, -; VII, H, -, -, H, H, PhNH, H, -, -, -, 198, -; VII, H, -, -, H, H, NHAc, H, -, -, -, 204-5, -; VII, H, -, -, H, HNAc, H, H, -, -, -, 194-5, -; VII, H, -, -, H, H, NHCOC11H23, H, -, -, -, 196-208, -; VII, H, -, -, H, H, NHCOC17H35, H, -, -, -, 202-6, -; VII, Me, -, -, H, H, NH2, H, -, -, -, 177-8, -; VII, H, -, -, H, H, 4-C6H4NHCSNH2, H, -, -, -, 270, -; VII, Ph, -, -, H, H, NHCSNH2, H, -, -, -, 218, -; Solvents: a : C6H6; b : iso-PrOH; c :

petroleum ether; d : hexane,;

IT **1619-42-7**, Thiazole, 2-[p-(diethylamino)anilino]-4-phenyl-
1619-43-8, Acetanilide, 4'-[(4-phenyl-2-thiazolyl)amino]-
1619-44-9, Acetanilide, 3'-[(4-phenyl-2-thiazolyl)amino]-
1619-45-0, Dodecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]-
1619-46-1, Octadecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]-
1619-48-3, Acetanilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- **1619-49-4**, Acetanilide, 3'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- **1626-62-6**, Thiazole, 2,2'-(p-phenylenediimino)bis[4-phenyl- **1745-28-4**, Thiazole, 2,2'-(p-phenylenediimino)bis[4-(p-tert-butylphenyl)- **1750-98-7**, Thiazole, 4-(p-tert-butylphenyl)-2-[p-(diethylamino)anilino]- **2027-72-7**, Thiazole, 2-(p-anilinoanilino)-4-(p-tert-butylphenyl)- **2138-95-6**, Acetanilide, 4'-[(4-phenyl-2-thiazolyl)amino]-, hydrochloride **2138-96-7**, Dodecananilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- **2505-65-9**, Thiazole, 4-(p-tert-butylphenyl)-2-[p-[N-[4-(p-tert-butylphenyl)-2-thiazolyl]anilino]anilino]- **4309-45-9**, Thiazole, 2,2'-(m-phenylenediimino)bis[4-phenyl-
(preparation of)

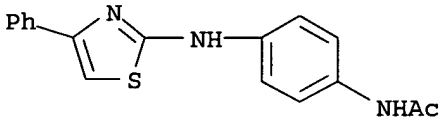
RN 1619-42-7 CAPLUS

CN Thiazole, 2-[p-(diethylamino)anilino]-4-phenyl- (7CI, 8CI) (CA INDEX NAME)



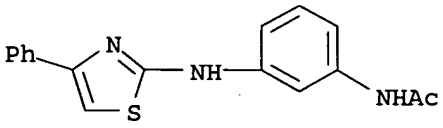
RN 1619-43-8 CAPLUS

CN Acetanilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



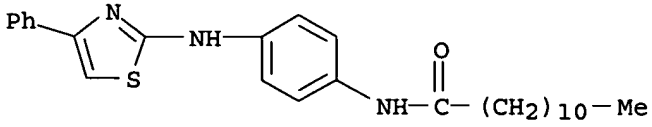
RN 1619-44-9 CAPLUS

CN Acetanilide, 3'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)

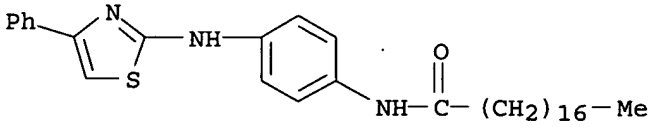


RN 1619-45-0 CAPLUS

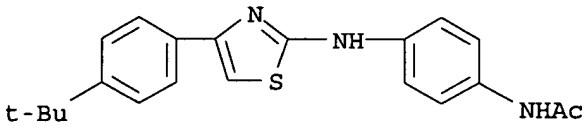
CN Dodecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



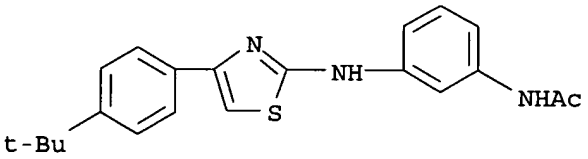
RN 1619-46-1 CAPLUS
CN Octadecananilide, 4'-[(4-phenyl-2-thiazolyl)amino]- (7CI, 8CI) (CA INDEX NAME)



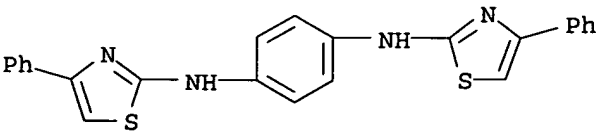
RN 1619-48-3 CAPLUS
CN Acetanilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)



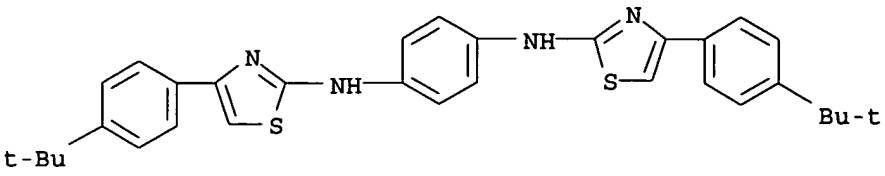
RN 1619-49-4 CAPLUS
CN Acetanilide, 3'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)



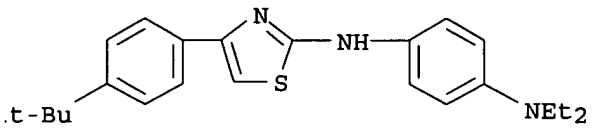
RN 1626-62-6 CAPLUS
CN 1,4-Benzenediamine, N,N'-bis(4-phenyl-2-thiazolyl)- (9CI) (CA INDEX NAME)



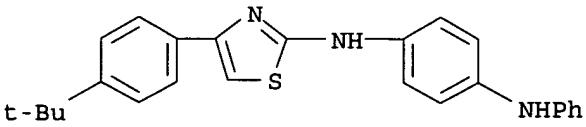
RN 1745-28-4 CAPLUS
CN Thiazole, 2,2'-(p-phenylenediimino)bis[4-(p-tert-butylphenyl)- (7CI, 8CI) (CA INDEX NAME)



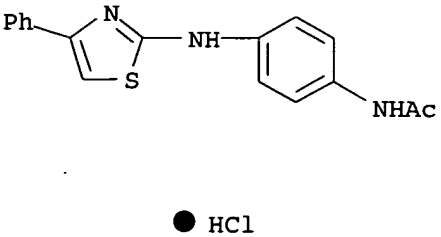
RN 1750-98-7 CAPLUS
CN Thiazole, 4-(p-tert-butylphenyl)-2-[p-(diethylamino)anilino]- (7CI, 8CI) (CA INDEX NAME)



RN 2027-72-7 CAPLUS
CN Thiazole, 2-(p-anilinoanilino)-4-(p-tert-butylphenyl)- (7CI, 8CI) (CA INDEX NAME)

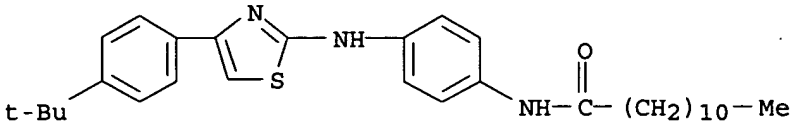


RN 2138-95-6 CAPLUS
CN Acetanilide, 4'-[(4-phenyl-2-thiazolyl)amino]-, monohydrochloride (8CI) (CA INDEX NAME)

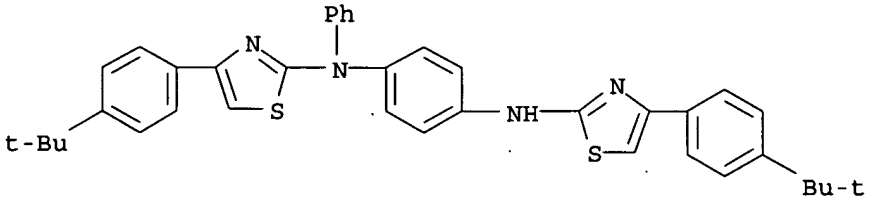


RN 2138-96-7 CAPLUS

CN Dodecananilide, 4'-[[4-(p-tert-butylphenyl)-2-thiazolyl]amino]- (7CI, 8CI) (CA INDEX NAME)



RN 2505-65-9 CAPLUS
CN Thiazole, 4-(p-tert-butylphenyl)-2-[p-[N-[4-(p-tert-butylphenyl)-2-thiazolyl]anilino]anilino]- (7CI, 8CI) (CA INDEX NAME)



RN 4309-45-9 CAPLUS
CN Thiazole, 2,2'-(m-phenylenediimino)bis[4-phenyl- (7CI, 8CI) (CA INDEX NAME)